

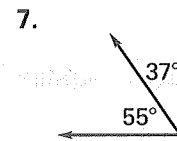
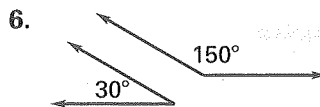
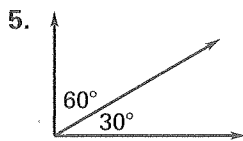
Practice A

For use with pages 67–73

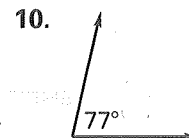
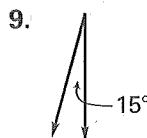
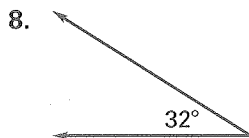
Decide whether the statement is **true** or **false**. If the statement is false, reword the statement so that the statement is true.

- Two angles are complementary if the sum of their measures is 180° .
- Two angles are supplementary if the sum of their measures is 180° .
- Two angles are adjacent angles if they share a common vertex.
- A theorem is a true statement that follows from other true statements.

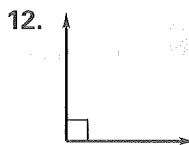
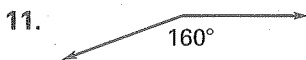
Determine whether the angles are **complementary**, **supplementary**, or **neither**.



Find the measure of a complement of the angle given.

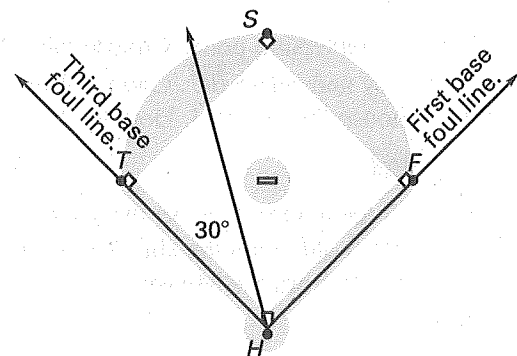
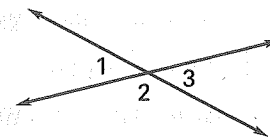


Find the measure of a supplement of the angle given.



Use the diagram to complete the statement.

- $\angle 1$ and $\angle ?$ are supplementary angles.
- $\angle 3$ and $\angle ?$ are supplementary angles.
- $\angle ? \cong \angle ?$ by the Congruent Supplements Theorem.
- The foul lines of a baseball field intersect at home plate to form a right angle, $\angle THF$. You hit a baseball whose path forms an angle of 30° with the third base foul line. What is the measure of the angle formed by the first base foul line and the path of the ball?



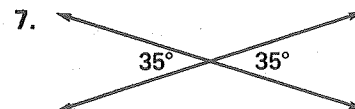
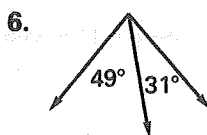
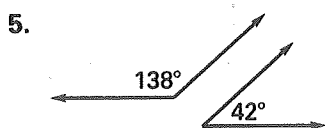
Practice B

For use with pages 67–73

Complete the statement.

- Two angles are complementary if the sum of their measures is $\underline{\quad ? \quad}^\circ$.
- Two angles are supplementary if the sum of their measures is $\underline{\quad ? \quad}^\circ$.
- If two angles share a common vertex and side, but have no common interior points, then the two angles are $\underline{\quad ? \quad}$ angles.
- A true statement that follows from other true statements is called a $\underline{\quad ? \quad}$.

Determine whether the angles whose measures are given are **complementary**, **supplementary**, or **neither**. Also tell whether the angles are **adjacent** or **nonadjacent**.



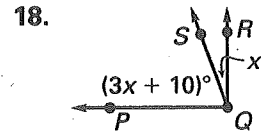
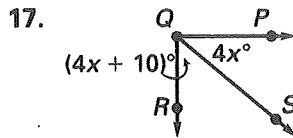
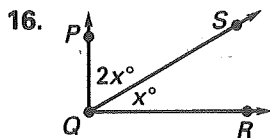
Find the measure of a complement of the angle.

- $m\angle Y = 40^\circ$
- $m\angle K = 12^\circ$
- $m\angle P = 64^\circ$
- $m\angle T = 85^\circ$

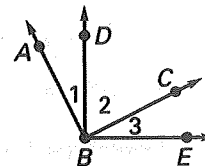
Find the measure of a supplement of the angle.

- $m\angle A = 54^\circ$
- $m\angle R = 115^\circ$
- $m\angle Z = 22^\circ$
- $m\angle F = 90^\circ$

$\angle PQS$ and $\angle SQR$ are complementary angles. Find the value of the variable.



- $\angle ABC$ and $\angle DBE$ are right angles. Name an angle that is congruent to $\angle 3$. Explain.



In Exercises 20 and 21, use the drawing of a teeter-totter.

- The marked angles are supplementary. Find the value of x .
- By how many degrees would the angle of the teeter-totter have to change so that it forms a right angle with its vertical support bar? (Hint: Find the measure of a complement of a 74° angle.)

